EXHIBIT A MEDICAL COMMENT on clinical trials of the device (therapeutic suit) $\pi K-92$ "Adeli" for treating patients with disturbed locomotorium A clinical trial of the device $\pi K-92$ "Adeli" for treating patients with disturbed locomotorium by a method of dynamic proprioceptive correction was carried out from September, 1992, to February, 1993, on the basis of the children's clinical Psychoneurological Hospital No. 18 in Moscow. The patients were under observation of the staff members of the chair of pediatric neurology of the Central Institute for Advanced Medical Training in the course of studies with students given a cycle of postgraduate advancement. A total of 16 patients aged from 13 to 20 and affected by the various forms of infantile cerebral paralysis (ICP) were treated by the proposed device. Given below as an example are the diagnoses of some of the patients. Female patient O.R-va, 20. Diagnosis: ICP in the hyperkinetic form, spastic-hyperkinetic dysarthria. Female patient Yu.L-s, 16. Diagnosis: ICP, severe spastic diplegia, hyperkinetic syndrome, spastic-hyperkinetic dysarthria; status after operative treatment (bilateral Eggers operation). Male patient A.B-kh, 18. Diagnosis: ICP, right hemiparesis, cerebellar syndrome. Male patient A.M-v, 16. Diagnosis: ICP, spastic diplegia, equinovarus. - 1 -

Male patient D.A-v, 16. Diagnosis: infantile cerebral paralysis, spastic diplegia with the predominant affection of the right limbs, hyperkinetic syndrome, partial atrophy of the disks of the optical nerves, talipes equinus of the right foot. Female patient O.I-a, 13. Diagnosis: infantile cerebral paralysis, spastic diplegia following an operative treatment (surgery for bilateral bringing down of the straight femoral muscles, talipes equinoplanovalgus of both feet. The patients were given a treatment course with the proposed device by daily sessions 30-40 min. long for 20 days. Concurrently the patients were given physical loads such as walking and isometric exercises applied to the pedal, pelvic, and trunk muscles. As a control group, there was observed a group of 20 patients of the same hospital department, suffering from the various forms of ICP, who had been treated with the hereforeknown generally adopted techniques and procedures used clinically both in this country and abroad. The treatment results were judged by the following signs: 2.1. Correction of the already developed compensatory pathologic posture of the trunk and limbs depending on the formation of a specific form of ICP. 2.2. Augmenting of the muscle strength and a possibility of performing increased physical loads, that is, walking without earlier symptoms of fatigue and sensation of muscular weakness in the legs and trunk.

2.3. Presence of initial and maintained psychological motivation for treatment. Results of clinical trials of the proposed therapeutic device. 3.1. A positive effect as to the presence of all the aforementioned evaluating signs was observed in 12 out of 16 patients. 3.2. All the patients developed a distinctive increase in the muscular strength. 3.3. A marked correction of the posture was observed in 13 patients. 3.4. A reduced intensity of hyperkinesis and decreased flexural-pronator pathology in the arms and fingers under conditions of a complete absence of a goal-oriented correction of these disturbances. 3.5. Acute somatopathies may be pointed to as contraindications to the use of the proposed device. Conclusion as to the results of the clinical trials performed. 4.1. The proposed method for treatment of motor disturbances in children suffering from ICP and other diseases of the central nervous system with the aid of the device $\pi K-92$ "Adeli" resides in a fundamentally novel solution consisting in replacing previous static (passive) methods for correction of the

pathologic positions of a limb (or part thereof) carried out by virtue of stage-by-stage plastering of the affected limb for a many-years period with a view to partially adapting this limb to supporting and a limited motion, by a functional (active) and one-stage correction of the position of not only the limbs but the whole body. The proposed method for treatment of motor dysfunctions secondary to ICP and other diseases of the central nervous system accompanied by disorders of the locomotorium with the aid of the proposed device allows of a single-step correction of the pathologic positions of the trunk and limbs. This is turn contributes to an increased activity of the muscles weakened by the disease and to stimulation of other muscles that are conducive to restoring a new motor stereotype. The results of the present method of treatment with the aid of the proposed device demonstrate a stable many-months therapeutic effect. The device allows of such a stereotype of posture and motion that approximates the normal physiological one.

- 4.2. Taking account of the above-stated positive result of clinical trials of the device for treatment of patients with infantile cerebral paralyses and other diseases of the locomotorium, using the principle of correction of the proprioceptive afferent conduction, one can assess the results of clinical trials of the device for bringing in medical practice for treating patients suffering from infantile cerebral paralyses and other diseases of the locomotorium.
- 4.3. Application of the proposed device for accomplishing the objects of "treatment method" complies fully with the requirements of such method.

Thus, the device $\pi K-92$ "Adeli" can be recommended, on the grounds of its clinical trials, for use in medical practice and for a quantity production.